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# **Chapter 1 Main Technical Specifications Surgical Lamp LED**

## **1.1 Normal Working Environment**

Operating environment

- a) Temperature : +10 °C to +30 °C
- b) Relative Humidity : ≤ 70%
- c) Atmospheric Pressure : 860 to 1060 hPa

Storage and Transport Conditions

- a) Ambient Temperature : -10°C to +40°C
- b) Relative Humidity : ≤ 80%
- c) Atmospheric Pressure : 500 to 1060 hPa

## 1.2 Full Specification MOL-01

Unit Dimension	152 cm (L) × 53 cm (W) × 211 cm (H)
Lamp Dimension	Ø 500 mm × 135 mm (H)
Length Dimension	±830 mm
Voltage	220 VAC, 50 Hz/60 Hz
Power	±49 W
Lamp Quantity	54 Pcs
Bulb Life	50000 hours
Color Rendering	± 93 Ra
Color Temperature	3500-4000 K
Radiation Ratio	± 320 W/m <sup>2</sup>
Depth of Illumination	>1400 mm
Shadow (%)	78%
Light Spot Diameter	15 cm – 20 cm (1 m)
Light Intensity	> 60.000 lux (100 cm)
	> 160.000 lux (60 cm)
Weight	± 50 kg

## **Chapter 2 Security Warning**

1. This device is recommended for use by adults.
2. Read this instruction manual carefully before operating the unit, and operate the device in accordance with the operating guidelines.
3. The unit must be cleaned after each use.
4. Cleaning should be performed once a day.
5. Do not operate the device in a humid environment.
6. Turn off the unit and disconnect the power supply cable before cleaning and wiping it dry.
7. Do not direct the light beam toward the eyes.
8. Keep the unit away from fire.

## **Chapter 3 Rules of Maintenance**

Under normal conditions use according to this unit Use Directive, if this unit has some problems please contact our customer service. The company has sales records and customer records for each unit that received a one-year service warranty from the date of initial purchase depending on the conditions and time.

This product comes with a 2-year warranty. However, the warranty does not apply to the following conditions:

1. Damage resulting from improper use, including impacts, drops, exposure to water, or any other form of misuse.
2. Damage caused by the product being dropped after it has been taken home by the user from the place of purchase.

3. Damage resulting from preparation, modification, disassembly, or any other actions performed outside the standard procedures of our company.
4. Damage caused by natural disasters such as fire, flood, earthquake, and similar events.
5. Damage caused by unstable electrical voltage, whether significant fluctuations or operation outside the recommended voltage range for the unit.
6. The warranty and free maintenance services become void if the official seal on the unit is found damaged or removed.
7. For maintenance services outside the warranty period, the company recommends using the “Periodic Maintenance Contact.”

## **Chapter 4 Notice before Operation**

1. Read this instruction manual carefully before operation to ensure safe and effective use of the unit.
2. Installation and maintenance of the device must be carried out in accordance with this instruction manual.
3. The unit must be placed on a flat surface. Ensure it is positioned securely when being moved. Avoid excessive vibration and shock.
4. The AC frequency and voltage must meet the required specifications and provide adequate current capacity.
5. Check all accessories to ensure they are installed correctly, securely, and in their proper positions.

## **Chapter 5 Power Connection for MOL-01**

Electrical Connection for MOL-01 Operating Lamp:

1. Ensure that the AC power supply complies with the specified requirements.
2. Connect the power cable or plug from the unit to a properly grounded electrical outlet.
3. Ensure that the power indicator light on the unit is illuminated.
4. If the power cable is not properly connected before operating the unit, the device may not function correctly due to inefficient power input.

## **Chapter 6 Operation of the Surgical Lamp LED MOL-01**

1. Connect the power cable to the electrical socket.
2. Press the power switch to the ON position to turn on the unit.
3. Place the operating lamp in the desired position.
4. Focus the LED light beam on the patient/object.
5. Adjust the illumination control as needed.
6. Perform the examination.
7. After the examination, press the power switch to the OFF position.
8. Disconnect the power cable from the electrical socket.
9. Store the operating lamp in its designated place.

## **Chapter 7. Troubleshooting the Unit**

No	Problem	Solution
1	Not Powering On	<ul style="list-style-type: none"><li>• Check the power connection to the power source.</li><li>• Check the power cable connection to the unit.</li><li>• Check the fuse; if it is blown, replace it with a new one.</li></ul>

2	Not Functioning	<ul style="list-style-type: none"><li>• Check whether the power indicator light is on or off.</li><li>• Check whether the electrical voltage is normal.</li></ul>
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## Chapter 8 Care and Maintenance

1. The buyer is not permitted to open or disassemble the contents in the unit. Any maintenance or renewal shall be performed by an authorized person and an authorized professional of PT. Sinko Prima Alloy. Maintenance must be done with original components from PT. Sinko Prima Alloy.
2. Please apply to withdraw the steaker power supply when the electric power is about to be switched off. If the unit is not used for long periods of time, please draw the steaker power supply from the power source, then place the unit in a cool, cool and dry place.
3. Then unit should be maintained and cleaned regularly.

How to clean Elitech Surgical Lamp LED as follows:

1. Firstly, the power cord must be removed from the power source.
2. Prepare a cloth containing clean water without cleaning material and then rub it evenly over the entire unit.
3. Use a clean, dry cloth to dry, until the entire unit is completely dry and clean

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## MOL-01

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Manual Book

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